

REPORT OF CHANNEL CONDITIONS 400 FEET WIDE OR GREATER <i>(ER 1130-2-306)</i>							PAGE 1 OF 3 DATE: January 17, 2008	
TO: The Record				FROM: U.S. Army Corps of Engineers 26 Federal Plaza, ATTN: CENAN-OP-ST New York, NY 10278-0090				
RIVER/HARBOR NAME AND STATE: Newark Bay, Hackensack and Passaic Rivers – Main Channel, South Elizabeth Channel, Elizabeth Channel, Port Newark and Port Newark Pierhead Channels, New Jersey						MINIMUM DEPTHS IN CHANNEL ENTERING FROM SEAWARD		
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)				
Reach A (Partial): Main Channel South Reach-From approximately 220 feet seaward of RED LIGHTED #6 to approximately 1,760 feet seaward of RED NUN #12.	Map 892 Pg 2 to 3 of 4; 19, 24, 26, 27 Sept. & 1 thru 4 Oct. 2007	1,000-1,830	0.62	45	42.4	45.8	46.9	45.2
Reach B: Main Channel Middle Reach From approximately 1,760 feet seaward of RED NUN #12 to approximately 310 feet seaward of RED NUN #16.	Map 892 Pg 3 to 4 of 4; 19, 24, 26, 27 Sept. & 1 thru 4 Oct. 2007	800-1,700	0.88	45	40.0	42.9	42.0	38.0
Reach B1: Main Channel Middle Reach From approximately 310 feet seaward of RED NUN #16 to approximately 385 feet seaward of RED LIGHTED #20.	Map 891 Pg 6 thru 7 of 10; 27, 29-31 Aug.; 5-7, 10-13, 15, 18-20, 27 Sept.; & 22 Oct. 2007	800-560	0.53	40	36.5	38.6	34.9	29.1
Reach C (Partial): Main Channel North Reach From approximately 385 feet seaward of RED LIGHTED #20 to approximately 80 feet landward of RED LIGHTED #20.	Map 891 Pg 7 of 10; 27, 29-31 Aug.; 5-7, 10-13, 15, 18-20, 27 Sept.; & 22 Oct. 2007	560-500	0.07	35	34.6	35.6	34.8	32.7
Reach D: Port Newark Branch Reach From GREEN CAN #19A to a point approximately 2,200 feet landward (westward) of GREEN CAN #19A into the reach.	Map 891 Pg 7 thru 8 of 10; 27, 29-31 Aug.; 5-7, 10-13, 15, 18-20, 27 Sept.; & 22 Oct. 2007	400-1,775	0.37	40	27.9	32.1	38.9	33.6
Reach E: Port Newark Inshore Reach From a point approximately 2,200 feet landward (westward) of GREEN CAN #19A to END of Port at a point approximately 1.6 miles westward of Main Channel.	Map 891 Pg 8 thru 10 of 10; 27, 29-31 Aug.; 5-7, 10-13, 15, 18-20, 27 Sept.; & 22 Oct. 2007	400	1.06	40	33.0	32.6	31.2	31.2
Reach G: Port Elizabeth Branch Reach From RED NUN #2 to END of Port at a point approximately 1.4 miles westward into the reach.	Map 891 Pg 2 thru 4 & 6 of 10; 27, 29-31 Aug.; 5-7, 10-13, 15, 18-20, 27 Sept.; & 22 Oct. 2007	500-800	1.26	45	43.6	43.3	42.5	38.4
REMARKS: <ul style="list-style-type: none"> All depths are in reference to Mean Low Water (MLW). Channel Length is in nautical miles. 								
REMARKS continued on Page 2 of 3.								

REMARKS (continued):

NEWARK BAY

- **Reach A (Partial):** Shoaling exists in the along the channel boundary in the Left Outside Quarter. The shoal begins approximately 280 feet seaward from the end of Partial Reach A and continues into Reach B. The maximum width of the shoal is approximately 320 feet.
- **Reach B:** Shoal continues from Reach A along the channel boundary in Left Outside Quarter for an approximate 1,960 ft length. The maximum width of this shoal is approximately 330 feet in this reach. Shoaling also exists in the Left Outside Quarter of the channel beginning approximately 800 feet seaward of CHANNEL LIGHT #15 and extends landward for an approximate 1,300 feet length landward to the end of Reach B. The majority of this shoal takes up the entire width of the Left Outside Quarter. Shoaling extends over the Left Inside Quarter for an approximate 475 feet length at the landward end of this reach. Shoaling also exists throughout virtually the entire Right Outside Quarter of this reach. The width of the shoal takes up the majority of the Right Outside Quarter of the channel, until approximately 1,000 feet landward of RED LIGHTED #14 where the shoal widens out into the majority of the Right Inside Quarter of the channel as well.
- **Reach B1:** For approximately the first 630 feet of this reach, at the seaward end, shoaling exists throughout the entire channel width, and the authorized depth is available only along a passageway with 130 feet average width at the approximate center of the channel. Thence the shoaling continues in most of the right half of the channel up into Reach C, but the left half of the channel becomes shoal free for an approximate 2,000 foot length up to a point 100 feet seaward from GREEN CAN #19A. Thence shoaling extends across the entire channel width at the beginning of Reach C.
- **Reach C (Partial):** Shoaling exists in much of the Right Outside Quarter of the channel for this entire partial reach. Very minor shoaling exists in the Right Inside Quarter of this partial reach. Very minor shoaling exists in the Left Outside Quarter of this partial reach.
- **Reach D:** Shoaling exists in the Left Outside Quarter of the channel for the majority of this reach. Shoaling exists in the Left Inside Quarter of the channel starting from the beginning of this reach and extends approximately 1,900 feet landward into the reach. Some sporadic shoaling exists in the Right Inside Quarter of the channel starting approximately 175 feet landward into the reach and extends approximately 1,050 feet landward into the reach. Shoaling exists in the much of the Right Outside Quarter of the channel starting approximately from the beginning of the reach and extends approximately 1,600 feet landward into the reach.
- **Reach E:** For approximately the first 5,000 feet of this reach from the seaward end shoaling exists throughout the entire channel width, and the authorized depth is available only along a passageway with 130 feet average width at the approximate center of the channel. The entire channel width appears shoal free for a 600 foot length in the vicinity of the bend and for another 400 foot length ending about 1,100 feet from the western channel limit. Shoaling extends across the channel's entire width (all 4 Quarters) for approximately the last 1,100 feet of the port.
- **Reach G:** Shoaling exists in the first approximate 3,100 feet of the Right Outside Quarter of this reach. The same shoal extends over the Right Inside Quarter of the channel starting approximately 1,000 feet landward into the reach and extends approximately 1,330 feet further landward into the reach. The maximum width of the shoal takes up the majority of the width of the Right Inside Quarter of the channel. Minor shoaling exists sporadically for approximately the first 750 feet of the Left Outside Quarter of the channel. Shoaling also extends across the channel's entire width (all 4 Quarters) for approximately the last 1,200 feet of the port.

REPORT OF CHANNEL CONDITIONS 100 TO 400 FEET WIDE <i>(ER 1130-2-306)</i>					PAGE 3 OF 3		
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RIVER/HARBOR NAME AND STATE: Newark Bay, Hackensack and Passaic Rivers – Main Channel, South Elizabeth Channel, Elizabeth Channel, Port Newark and Port Newark Pierhead Channels, New Jersey					MINIMUM DEPTHS IN CHANNEL ENTERING FROM SEAWARD		
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MIDDLE HALF (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)			
Reach F: Pt. Newark Pierhead Reach From RED NUN #4 to approximately 300 feet north of RED NUN #10 into the reach.	Map 891 Pg 4 & 8 of 10; 27, 29-31 Aug.; 5-7, 10-13, 15, 18-20, 27 Sept.; & 22 Oct. 2007	300-750	0.65	40	33.1	32.5	30.4
Reach I: Port Elizabeth South Reach From approximately 500 feet north (landward) and approximately 1,980 feet west of RED LIGHTED #6 at junction between Port Elizabeth South Reach and the Main Channel to END of Port at a point approximately 0.5 miles westward.	Map 892 Pg 1 to 2 of 4; 19, 24, 26, 27 Sept. & 1 to 4 Oct. 2007	140-290	0.43	45	44.3	45.2	43.7
REMARKS: <ul style="list-style-type: none"> All depths in Mean Low Water (MLW). Channel length is in nautical miles. 							
NEWARK BAY <ul style="list-style-type: none"> Reach F: For approximately the first 2,300 feet of this reach, from the seaward end, shoaling exists throughout the entire channel width, and the authorized depth is available only along a passageway with 100 feet average width inside the Middle Half of the channel. Shoaling exists across the entire width of the channel for approximately the last 1,500 feet of this reach. Reach I: Minor shoaling exists in the Left Outside Quarter of this channel beginning approximately 2,160 feet landward (westward) of the beginning of the reach, for a length of approximately 60 feet and a width of the entire quarter. <p style="margin-left: 20px;">Minor shoaling exists in the Right Outside Quarter of this channel at the very end of the reach in the extreme northwest corner, covering an approximate area of 35 square feet.</p>							